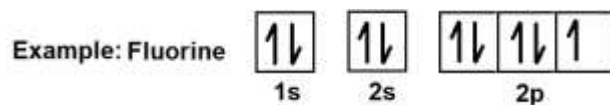


1. Draw the electron orbital diagram for each of the following elements.



- | | |
|-------------|---------------|
| a. chlorine | d. aluminum |
| b. oxygen | e. boron |
| c. nitrogen | f. phosphorus |
2. Write the electron configuration for each of the following elements.



- | | |
|--------------|--------------|
| a. potassium | d. cobalt |
| b. zirconium | e. magnesium |
| c. vanadium | f. argon |
3. Determine the number of valence electrons in each of the following elements and draw the Lewis dot diagram for each.



- | | | |
|-------------|------------|---------------|
| a. xenon | f. carbon | k. nitrogen |
| b. hydrogen | g. zinc | l. phosphorus |
| c. barium | h. lithium | m. aluminum |
| d. oxygen | i. sulfur | n. boron |
| e. iodine | j. helium | o. bromine |